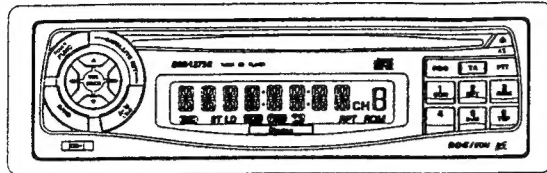


# Service Manual



Model DRB4375R

## RDS EON/FM-MPX MW/LW Radio CD Combination

Model **DRB4375R**

(PE-2246E-A/illumination:Amber)

(PE-2246E-B/illumination:Green)

### ■ ORIGINAL SERVICE MANUAL

This additional service manual is designed to be used together with model DRB6275R

Original model	Manual No.
DRB6275R	298-5379-00

4401

### ■ SPECIFICATIONS

#### Radio Section

Tuning system:	PLL synthesizer
Receiving frequencies:	FM 87.5 to 108MHz
	MW 531 to 1,602kHz
	LW 153 to 279kHz

#### CD Section

system:	Compact disc audio
Sampling frequency:	44.1kHz
Oversampling:	8 times
Converters:	Dual 1-bit digital/analog converters
Frequency response:	20 to 20kHz (±1dB)
Dynamic range:	95dB (1kHz)
S/N ratio:	96dB (1kHz) IHF-A
Distortion:	0.01%

#### General

Power supply voltage:	DC14V (10.8 to 15.6V allowable) Negative ground
Power consumption:	Less than 10A
Speaker impedance:	4Ω (4 to 8Ω allowable)
Auto antenna rated current:	350mA or less
Dimensions (mm):	178(W) x 50(H) x 152(D)
Weight:	1.6kg (3.52lb)

### ■ FEATURES

1. RDS-EON receiver with PI, PS, AF, TA, PTY, REG and CT
2. 24 presets (18FM, 6MW/LW)
3. Dual 1-bit "Bit-stream" D/A converters
4. Plays 8cm discs
5. High power 30W x 4 ch max.
6. Triggered audio mute for cellular telephone
7. Fully detachable control panel

### ■ COMPONENTS

PE-2246E-A/E-B

Main unit		1
Mounting bracket	300-9035-03	1
Hook plate	330-8216-0L	2
Outer Escutcheon	370-5656-02	1
Screw	716-0726-01	1
DCP case	335-5331-00	1
Spacer	345-3653-01	1
A-lead	850-6681-00	1

\* For improvement purposes, specifications and design are subject to change without prior notice.

■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodelling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

### 6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

8. Cautions in checking that the optical pickup lights up. The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eye-sight.

9. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

### 9-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

### 9-2. Actuator

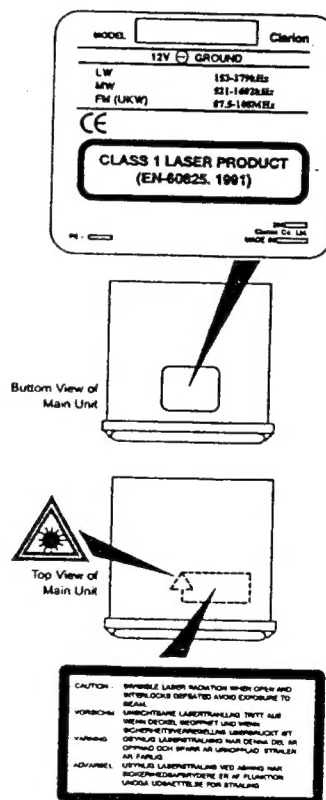
The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

### 9-3. Cleaning the lens

Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

## ■ CAUTIONS

This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT". To use this model properly, read this Owner's Manual carefully and keep this manual for your future reference. In case of any trouble with this player, please contact your nearest "AUTHORIZED services station". To prevent direct exposure to the laser beam, do not try to open the enclosure.



## ■ DIFFERENT FROM ORIGINAL MODEL

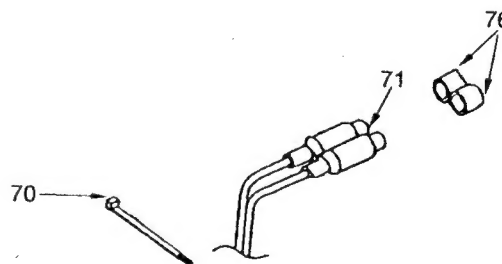
1. Escutcheon parts and mounting parts of the main section.
2. Switch PWB circuit

## ■ EXPLODED VIEW • PARTS LIST

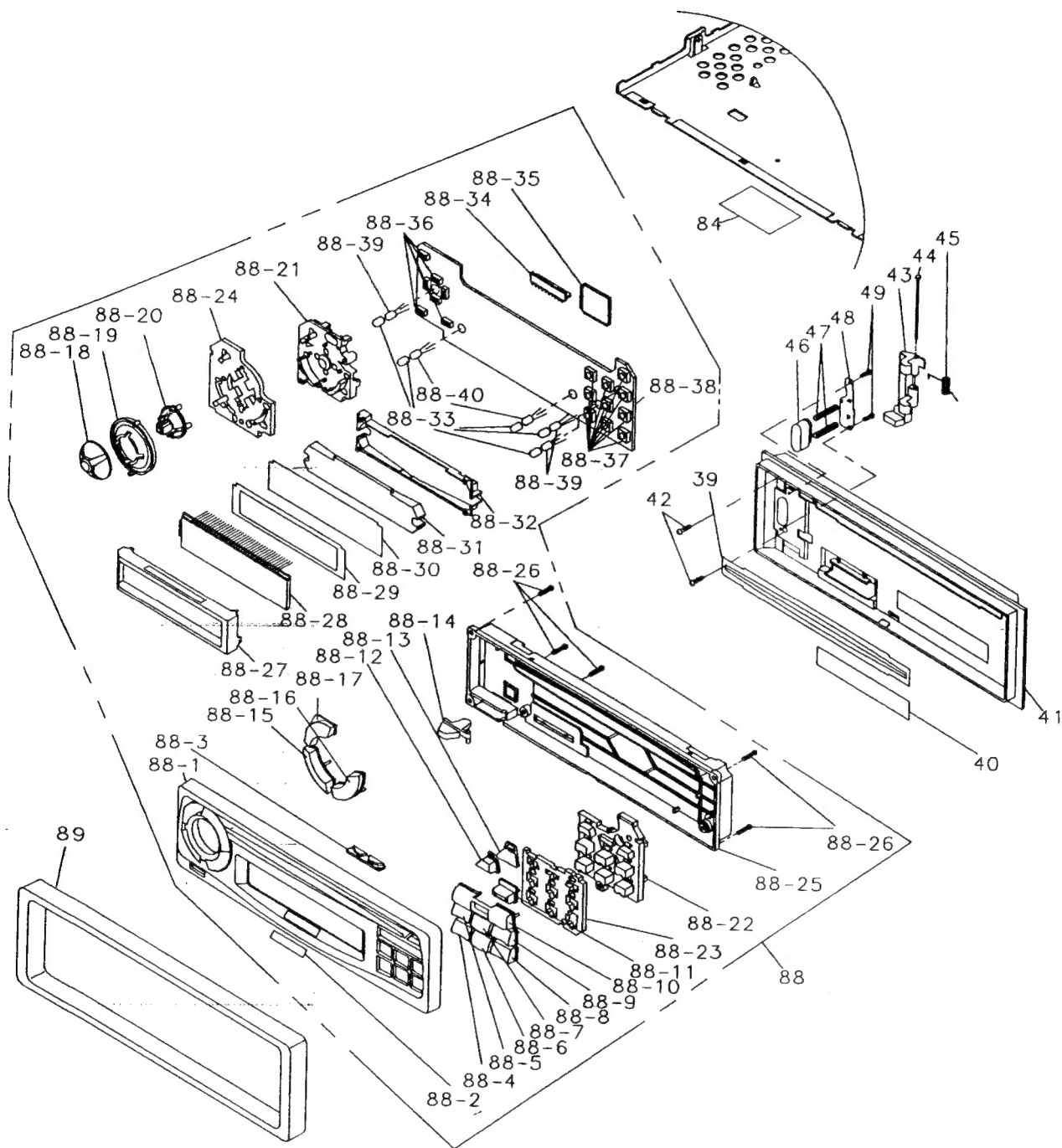
REF NO.	PART NO.	DESCRIPTION	Q'TY	REF NO.	PART NO.	DESCRIPTION	Q'TY
41	370-5655-00	INNER-ESCUTCHEON	1	88-18	380-5394-20	KNOB (JOB)	1
42	716-1792-00	MACHINE SCREW	2	88-19	335-5297-00	JOG PLATE	1
43	335-5312-00	HOOK	1	88-20	335-5298-00	JOG ARM	1
44	341-1627-20	SHAFT	1	88-21	335-5307-00	ILLUMI PLATE (L)	1
45	750-3219-20	SPRING	1	88-22	335-5306-00	ILLUMI PLATE (R)	1
48	331-2002-00	SPRING HOLDER	1	88-23	345-7817-21	SPONGE (R)	1
84	286-8711-00	SETPLATE	1	88-24	345-7818-21	SPONGE (L)	1
88	940-1806A	DCP ASSY (PE-2246E-A)	1	88-25	335-5296-00	REAR COVER	1
88	940-1807A	DCP ASSY (PE-2246E-B)	1	88-26	716-1721-00	P-TIGHT SCREW	5
88-1	370-5640-22	ESCUTCHEON	1	88-27	331-2014-00	LCD COVER	1
88-2	378-0148-00	BADGE	1	88-28	379-1068-41	INDICATOR	1
88-3	335-4874-20	DOOR ILLUMI	1	88-29	347-5366-20	FILM	1
88-4	382-4421-22	BUTTON (4)	1	88-30	347-5365-20	SHADE	1
88-5	382-4418-21	BUTTON (1 SCN)	1	88-31	335-5308-00	LCD ILLUMI	1
88-6	382-4422-21	BUTTON (5>/  )	1	88-32	335-5309-00	LCD HOLDER	1
88-7	382-4419-21	BUTTON (2 RPT)	1	88-33	345-4441-58	LAMP CAP (AMBER)	5
88-8	382-4423-21	BUTTON (6 TOP)	1	88-33	345-2830-20	LAMP CAP (GREEN)	5
88-9	382-4420-21	BUTTON (3 RDM)	1	88-34	076-0522-00	PLUG	1
88-10	382-4414-22	BUTTON (RDS/PTY)	1	88-35	051-6013-00	IC	1
88-11	382-4413-20	BUTTON (TA)	1	88-36	013-3812-11	TACT SWITCH	7
88-12	382-4453-00	BUTTON (EJECT)	1	88-37	013-6002-50	TACT SWITCH	10
88-13	335-5286-00	BUTTON HOLDER	1	88-38	039-0822-00	SWITCH PCB	1
88-14	382-4470-00	BUTTON (RELEASE)	1	88-39	017-0410-00	PILOT LAMP	3
88-15	382-4395-20	BUTTON (BAND)	1	88-40	017-0414-00	PILOT LAMP	2
88-16	382-4397-20	BUTTON (AM/LOUD)	1	89	370-5656-02	OUTER ESCUTCHEON	1
88-17	382-4393-20	BUTTON (FUNC/POWER)	1				

## ■ PARTS REMOVED/CANCELED LIST

REF NO.	PART NO.	DESCRIPTION	Q'TY
70	335-0833-01	LEAD HOLDER	1
71	855-8000-13	RCA PIN CORD	1
76	345-3799-0L	RUBBER CAP	2



REMOVED PARTS



## ELECTRICAL PARTLIST

Note: Several different parts with the same part number are alternative parts. One of those parts is used in the set.

### Main PWB Section

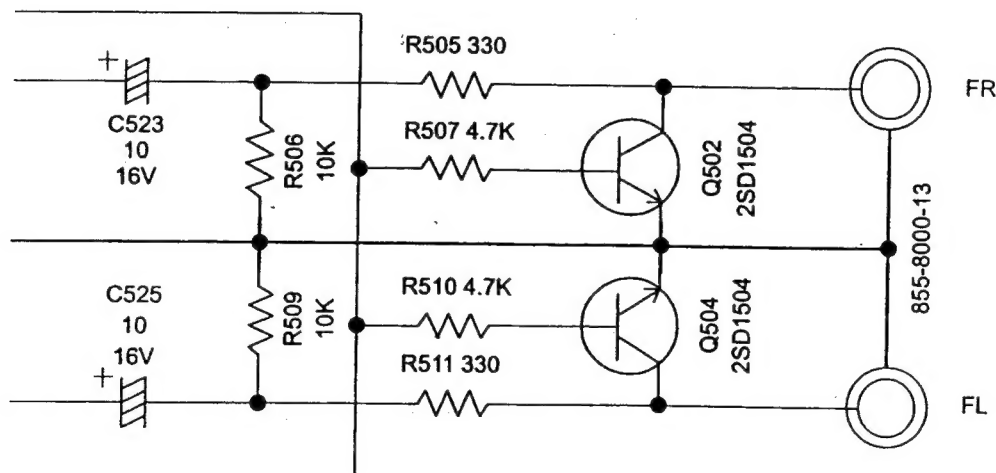
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 523	182-1063-33	16V-10 $\mu$ F	R 505	111-3311-91	1/4WS 330 $\Omega$	R 509	117-1031-10	1/10WS 10K $\Omega$
C 525	182-1063-33	16V-10 $\mu$ F	R 506	111-1031-10	1/10WS 10K $\Omega$	R 510	111-4721-91	1/4WS 4.7K $\Omega$
Q 502	103-1504-00	2SD1504	R 507	111-4721-91	1/4WS 4.7K $\Omega$	R 511	111-3311-91	1/4WS 330 $\Omega$
Q 504	103-1504-00	2SD1504						

### Switch PWB Section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 701	178-6812-05	680pF	PL 701	017-0414-00	8V70mA	S 707	013-3812-11	SKQCAC
C 702	178-4732-05	0.047mF	PL 702	017-0414-00	8V70mA	S 708	013-3812-11	SKQCAC
C 706	176-1011-00	100pF	PL 703	017-0410-00	14V40mA	S 709	013-6002-50	SKVHRC343
IC 701	051-6013-00	LC7584W	PL 704	017-0410-00	14V40mA	S 710	013-3812-11	SKQCAC
R 701	117-1021-05	1/10WS 1K $\Omega$	S 705	017-0410-00	14V40mA	S 711	013-6002-50	SKVHRC343
R 702	117-1021-05	1/10WS 1K $\Omega$	S 701	013-3812-11	SKQCAC	S 712	013-6002-50	SKVHRC343
R 703	117-1021-05	1/10WS 1K $\Omega$	S 702	013-6002-50	SKVHRC343	S 713	013-6002-50	SKVHRC343
R 704	117-3921-05	1/10WS 3.9K $\Omega$	S 703	013-6002-50	SKVHRC343	S 714	013-3812-11	SKQCAC
R 705	117-1241-05	1/10WS 120K $\Omega$	S 704	013-6002-50	SKVHRC343	S 715	013-3812-11	SKQCAC
R 706	117-6831-05	1/10WS 68K $\Omega$	S 705	013-6002-50	SKVHRC343	S 716	013-6002-50	SKVHRC343
R 707	117-1031-05	1/10WS 10K $\Omega$	S 706	013-3812-11	SKQCAC	S 717	013-6002-50	SKVHRC343

## CIRCUIT DIAGRAM

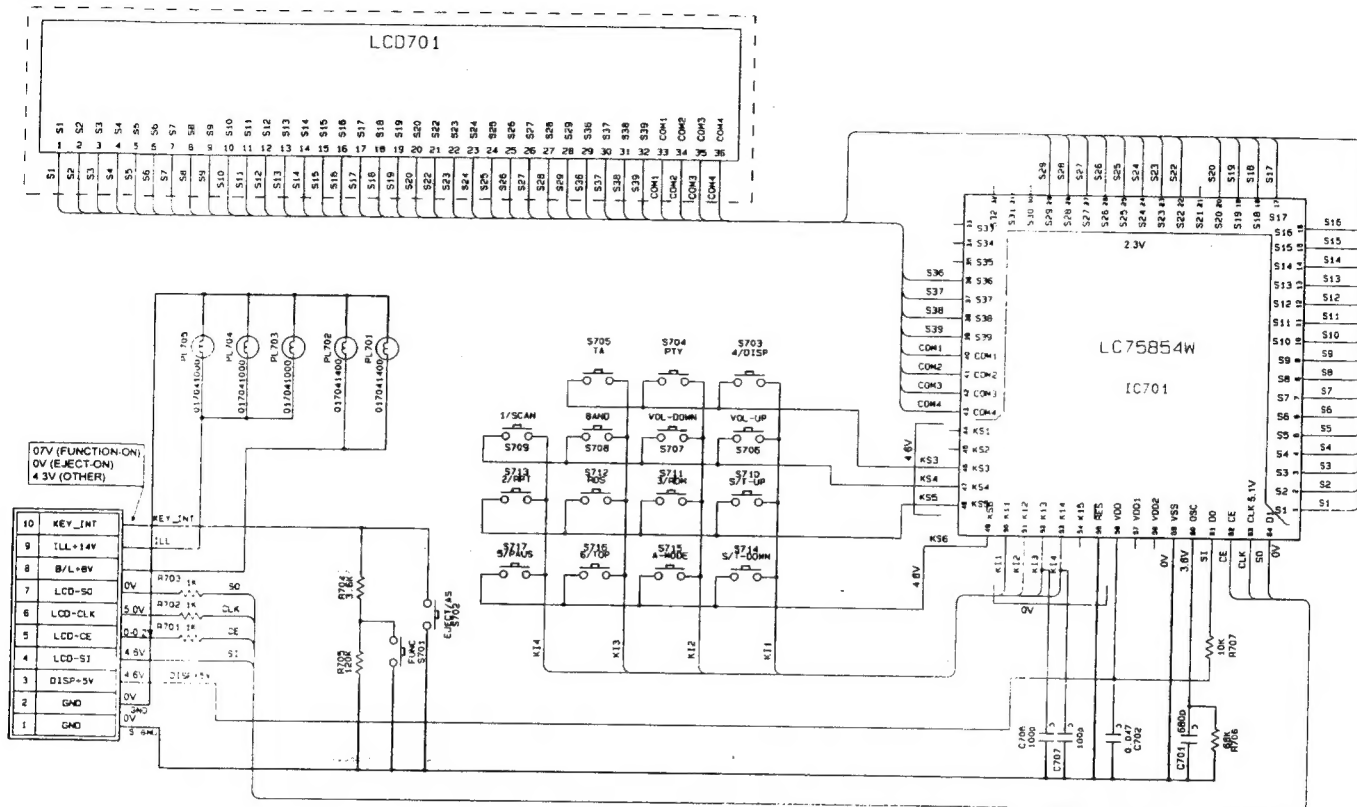
Main/RCA PWB Section 2/3



Note : All the above items have been deleted from the original circuit diagram.

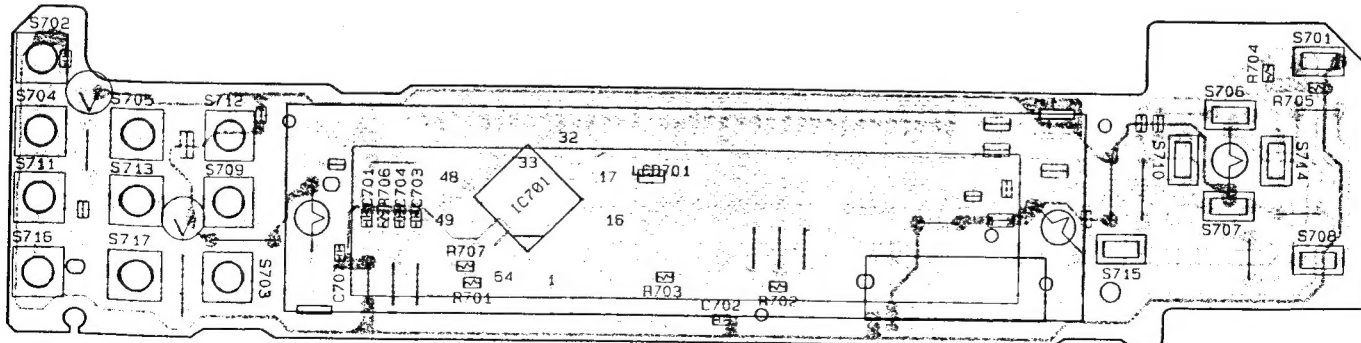
# CIRCUIT DIAGRAM

Switch PWB section 1/3



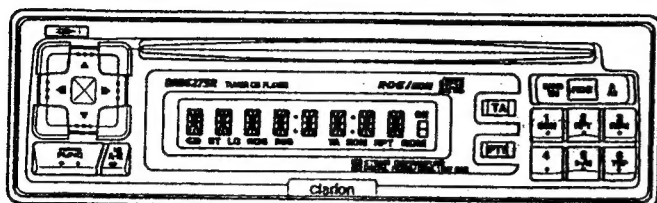
# PRINTED WIRING BOARD

Switch PWB section 1/3



# clarion Service Manual

Published by Service Dept.



## FM/MW/LW Radio CD Combination with RDS-EON

(PE-2201E-A / Illumination:Amber)  
(PE-2201E-B / Illumination:Green)

### SPECIFICATIONS

#### Radio section

Tuning system: PLL synthesizer

Receiving frequencies:

FM 87.5 to 108MHz

MW 531 to 1,602kHz

LW 153 to 279kHz

#### CD section

System: Compact disc audio

Sampling frequency:

44.1kHz

Oversampling: 8times

Converters: Dual 1-bit digital/analog converters

Frequency response:

20 to 20,000Hz(±1dB)

Dynamic range: 95dB(1kHz)

S/N ratio: 96dB(1kHz)IHF-A

Distortion: 0.01%

#### General

Power supply voltage:

DC14V(10.8 to 15.6V allowable)

Negative ground

Power consumption:

Less than 10A

Speaker impedance:

4Ω (4 to 8Ω allowable)

Auto antenna rated current:

350mA or less

Dimensions:

Width 178mm

Height 50mm

Depth 152mm

Weight:

1.6kg

※ For improvement purposes, specifications and design are subject to change without prior notice.

### FEATURES

RDS-EON receiver with PI,PS,AF,TA,PTY,REG and CT  
24 presets(18FM,6MW/LW)

Dual 1-bit "Bit-stream"D/A converters

Plays 8cm discs

High power 30W X 4 max.

Triggered audio mute for cellular telephone

Fully detachable control panel

### COMPONENTS

PE-2201E-A/E-B

Main unit		1
Mounting bracket	300-9035-03	1
Hook plate	330-8216-0L	2
DCP case	335-4848-03	1
Escutcheon	370-9006-22	1
Screw	716-0726-01	1
A-lead	850-6681-00	1

### CAUTIONS

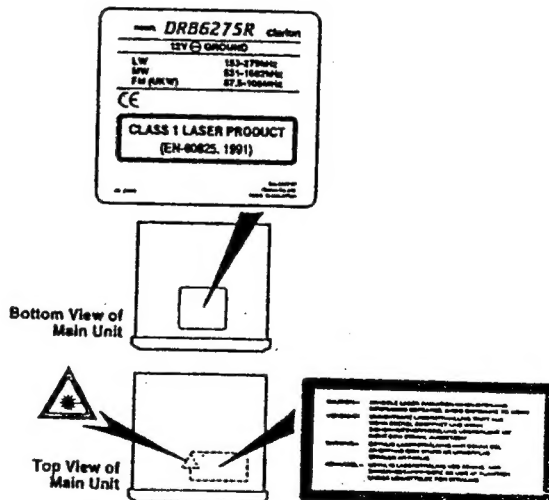
- 1.This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT".
- 2.Use of controls or adjustments or performance of procedures other than those specified in the service manual may result in hazardous radiation exposure.
- 3.Static discharges can destroy expensive component.Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit(heavy gauge black wires connect to this buss).
- 4.Turn the unit OFF during disassembly and parts replacement.Recheck all work before you apply power to the unit.
- 5.Use of controls or adjustments or performance of proce-



If a large current flows to the LD even for a very short period, deterioration is promoted by a strong light emitted by itself, or it is destroyed. See to it that the LD drive circuit will not be exposed to a surge current caused by a switch and others. If you handle it carelessly, it will be destroyed instantaneously by static electricity applied from a human body. The terminals of the LD have been shorted in order to protect them against electrostatic destruction caused by transportation upon shipment. To make safety doubly sure, earth a human body, instruments, and jigs without fail when installing. It is recommended to spread a ground mat on a work bench or the floor for grounding. To open the shorted parts, use a soldering iron after insert-

c) If you directly touch the pins of the flexible connector with hand, the LD will be deteriorated. When removing the mechanism from the set, be fully careful in handling.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, condensers, diodes, transistors, etc.). The negative pole of tantalum condensers is highly susceptible to heat, so use special care when replacing them, and check operation afterward.



Error display	Corrective measure
E R 2	This error display indicates that a fault has arisen in the mechanism of the main unit (for example, the disc cannot be changed or ejected). → Check the main unit.
E R 3	This error display indicates that the pickup focus is off because of a scratched disc or some other factor during the main unit play. → Check the compact disc.



# EXPLANATION OF IC

μPD78058GC-116-3B9 052-3325-00 RDS Master Micro computer

Outward Form

80pins plastic QFP

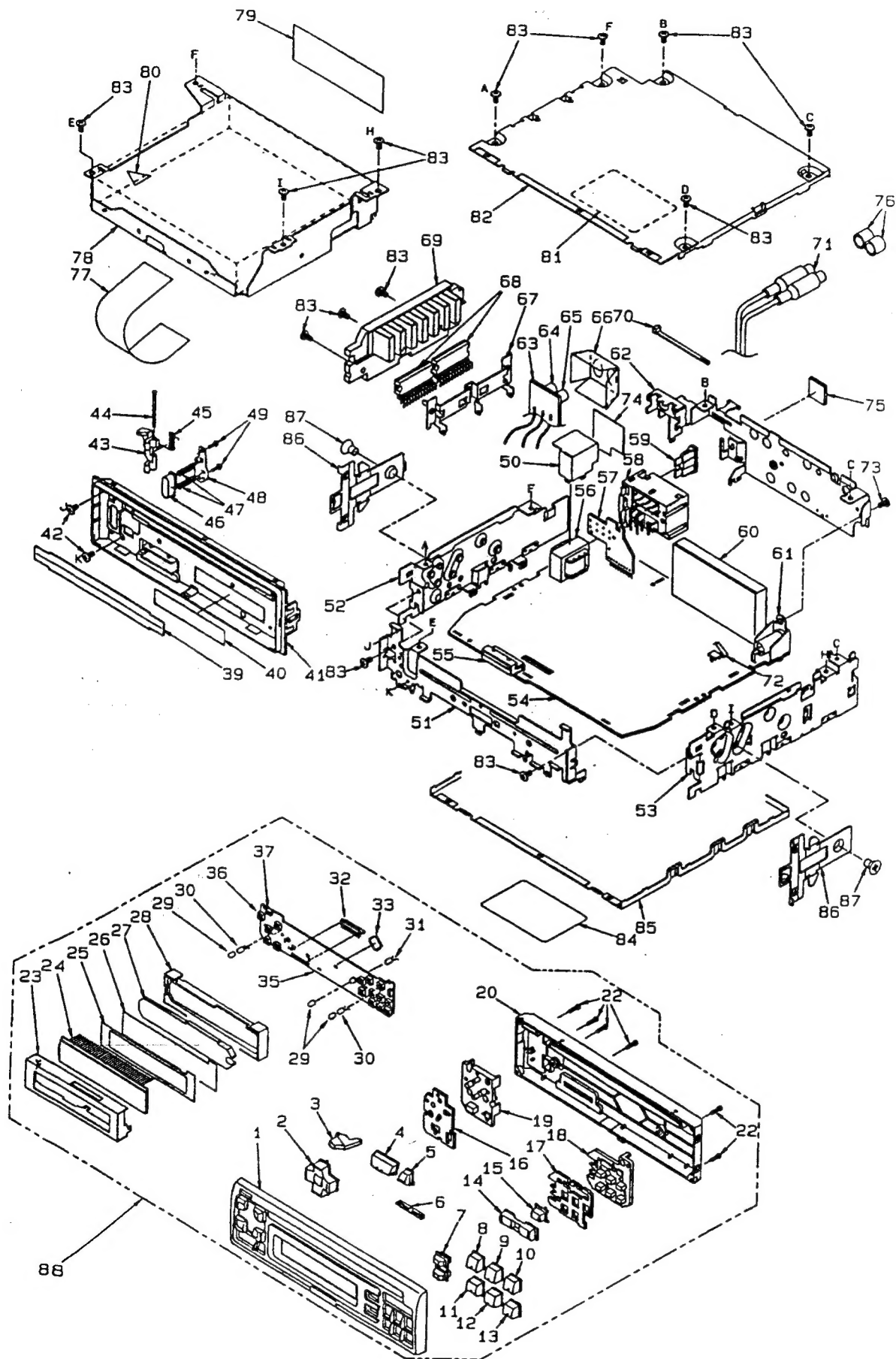
## Terminal Description

Pin No.	Symbol	I/O	Function															
80 1 2	TR-A TR-B TR-C	I	Photo sensor input terminals to mechanism Terminals for disc position detection such as for disc loading, chucking, and other mechanical status. When disk is present, "H" is input. When not present, "L" is input.															
3	CHA SW	I	Chucking SW input terminal This terminal detects disc chucking completion. If disc is loaded and chucking SW turns "ON", "L" is input.															
4	AVss	—	GND terminal for A/D converter															
5 6	VOL CW VOL CCW	I	Input terminals of rotary SW (OEM specification)															
7	AVref1	—	+5V power supply terminals for D/A converter															
8 9 10	PLL DI PLL DO PLL SCK	I O O	PLL control serial I/O terminals															
11 12 13 14	LCD SI LCD SO LCD SCK LCD CE	I O O O	LCD control serial I/O terminals															
15 1 20	NC	—	Not in use															
21	LDON	O	ON/OFF control output terminal of RF amplifier for laser output control "L": laser "ON"															
22 23	MCCW MCW	O O	Loading motor control terminals Performs disc loading and EJECT operation. <table><tr><td></td><td>LOADING</td><td>EJECT</td><td>BRAKE</td><td>STOP</td></tr><tr><td>MCW</td><td>"H"</td><td>"L"</td><td>"H"</td><td>"L"</td></tr><tr><td>MCCW</td><td>"L"</td><td>"H"</td><td>"H"</td><td>"L"</td></tr></table>		LOADING	EJECT	BRAKE	STOP	MCW	"H"	"L"	"H"	"L"	MCCW	"L"	"H"	"H"	"L"
	LOADING	EJECT	BRAKE	STOP														
MCW	"H"	"L"	"H"	"L"														
MCCW	"L"	"H"	"H"	"L"														
24	SQCK	O	SUB-Q data readout clock terminal from CXD 2545 Q															
25	XRST	O	Reset output terminal to CXD 2545 Q															
26	CLOCK	O	Clock output terminal for serial data transmission to CXD 2545 Q															
27	XLAT	O	Latch output terminal for serial data to CXD 2545 Q															
28	DATA	O	Serial data output terminal to control CXD 2545 Q															
29	SCLK	O	Clock to readout SENS data from CXD 2545 Q															
30	SQSO	I	Input terminal of SUB-Q data output from CXD 2545 Q															
31	SENS	I	Input terminal of CDIC internal state output from CXD 2545 Q XBUSY: During auto sequencer operation, in average measuring, and auto gain control operation (L) FOK: Focus OK (H) GFS: Replayed frame sink is gained with correct timing. (H) SSTOP: Limit SW ON (H) OV64: Detection of spindle motor low speed rotation (H)															
32	NC	—	Not in use															
33	Vss	—	GND															
34	NC	—	Not in use															
35	INIT3	I	Terminal for initialization (for OEM) "L" for rotation VOL & '93 specification "H" for cross key															
36	REM+5	O	Power supply control terminal of microcomputer pull up, LCD driver and PLL IC															
37	CD PWR2	O	CD power 2 control output terminal During CD PLAY, this port turns to "L" and power to CDIC is supplied. When STOP, spindle motor stops and this port turns to "OPEN", then power supply to CDIC turns OFF.															

Pin No.	Symbol	I/O	Function
38	RDS DX	O	DX output terminal for RDS "L" only when RDS DX SEEK
39	RDS+B	O	Terminal for RDS power supply "L" during FM reception
40	MUTE	O	Mute output "H" for mute ON
41	PHONE	I	Input terminal of TEL interruption "H" for interruption
42	REM+B	O	Audio system power supply control terminal
43	CD PWR1	O	CD power 1 control output terminal When output is "H", power to CD mechanism is supplied.
44	NC	—	Not in use
45	VOL SCK	O	Electronic volume control serial terminals
46	VOL SO		
48	NC	—	Not in use
49	NC	—	Not in use
50	BEEP	O	Buzzer output (for OEM)
51	RDS DATA	I	Data input terminal from RDS decoder
52	NC	—	Not in use
53	AM SD	I	AM SD input
54	ST IND	I	FM ST indicator input terminal "L" for light up. Light off in other modes and SEEK
55	FM SD	I	FM SD input
56	RDS MUTE	O	Mute output terminal for RDS
57	RFDS INIT	I	Terminal for RDS initial setting "L" for pool memory scan "H" for PI search
58	NC	—	Not in use
59	PLL CE	O	PLL control terminal
60	RESET	I	Reset input terminal
61	RDS CLK	I	Clock input for data readout from RDS decoder
62	B/U DET	I	B/U detection terminal
63	ACC IN	I	ACC detection terminal
64	KEY INT	I	Eject key and FUNC key input
65	SCOR	I	Signal from sub code sink SQ/SI output terminal of CXD 2545 Q is input.
66	BAND INT	I	BAND KEY input terminal (OEM specification)
67	NC	I	Not in use
68	Vdd	—	+5V power supply voltage terminal
69	XOUT	O	4.19 MHz terminal for ceramic
70	XIN	I	
71	IC	—	Connected to GND.
72	XT2	O	Not in use
73	INIT1	I	Market/OEM initial setting. L: Market H: OEM
74	AVdd	—	+5V power supply terminal for A/D converter
75	AVref0	—	
76	TEMP	I	Temperature sensor input terminal
77	SMETER	I	RDS S meter voltage detection terminal
78	KEY AD	I	EJECT/FUNC/DCP SW detection terminal 5V~4.5V: DCP OFF 4.5V~4V: DCP ON 1V~0.5V: FUNC ON 0.5V~0V: EJECT
79	REMOCON	I	REMOCON input terminal (OEM specification) 5V~0V: KEY OFF

Note: When L (market) is selected at initial setting, disregard the ports of exclusive use for OEM.

# ■ EXPLODED VIEW



# **■ PARTS LIST**

NO.	PART NO.	DESCRIPTION	QTY	NO.	PART NO.	DESCRIPTION	QTY
1	370-5573-00	ESCUTCHEON	1	47	750-3173-00	SPRING	2
2	382-7685-00	BUTTON (VOL)	1	48	331-0588-20	SPRING HOLDER	1
3	382-7665-00	BUTTON (RELEASE)	1	49	716-0778-00	WAVE SCREW	2
4	382-7683-01	BUTTON (POWER)	1	50	331-1862-00	SHIELD CASE	1
5	382-7684-01	BUTTON (A-M)	1	51	309-0664-20	FRONT PLATE	1
6	335-4874-00	ILLUMI-PLATE	1	52	305-0242-20	SIDE-CVR (L)	1
7	382-4074-00	BUTTON (TA/PTY)	1	53	305-0247-20	SIDE-CVR (R)	1
8	382-7703-01	BUTTON (1/SCN)	1	54	039-0600-00	MAIN PWB	1
9	382-7704-01	BUTTON (2/RPT)	1	55	074-1112-00	OUTLET SOCKET	1
10	382-7705-01	BUTTON (3/RDM)	1	56	009-9006-60	CHOKE	1
11	382-7706-02	BUTTON (4)	1	57	039-0602-00	ISO-RCA PWB	1
12	382-7707-01	BUTTON (5/PLAY)	1	58	074-1115-00	OUTLET SOCKET	1
13	382-7708-01	BUTTON (6/TOP)	1	59	060-0057-56	AUTO FUSE (10A)	1
14	382-4076-02	BUTTON (BAND/EJ)	1	60	80-2078-AI	FMLW/MW TUNER	1
15	382-4077-00	BUTTON (RDS)	1	61	092-9000-00	ANT-RECEPTACLE	1
16	345-7710-00	SPONGE (L)	1	62	307-0510-00	REAR-CVR	1
17	345-7711-00	SPONGE (R)	1	63	039-0602-00	ISO-RCA PWB	1
18	335-5020-00	ILLUMI PLATE R	1	64	075-9004-00	JACK (RED)	1
19	335-5019-00	ILLUMI PLATE L	1	65	075-9003-00	JACK (WHITE)	1
20	335-5018-00	REAR-CVR	1	66	347-5216-00	INSULATOR	1
22	716-1674-0L	P-TIGHT SCREW	6	67	331-1766-00	IC-HOLDER	1
23	331-1783-00	LCD-COVER	1	68	051-2009-00	IC (TDA8561Q)	2
24	379-1043-41	INDICATOR	1	69	313-1643-00	HEAT SINK	1
25	347-5234-00	FILM	1	70	335-0833-01	LEAD HOLDER	1
26	347-5233-00	FILM	1	71	855-8000-13	RCA PIN CORD	1
27	335-5016-00	ILLUMI PLATE	1	72	331-1861-00	EARTH PLATE	1
28	335-5017-00	LCD HOLDER	1	73	714-3006-81	MACHINE SCREW	1
29	345-4441-65	LAMP CAP (E-A,AMBER)	3	74	347-5291-00	FILM	1
29	345-2830-20	LAMP CAP (E-B,GREEN)	3	75	345-7740-00	RUBBER SHEET	1
30	017-9000-00	PILOT LAMP	2	76	345-3799-0L	RUBBER CAP	2
31	017-0441-00	PILOT LAMP	1	77	816-2376-00	FLAT CABLE	1
32	076-0522-00	PLUG (10P)	1	78	929-0065-80	CD-MECH-MODULE	1
33	051-6013-00	IC	1	79	347-5215-00	INSULATOR	1
35	039-0601-00	SWITCH PWB	1	80	285-1426-00	GUIDE LABEL (LASER)	1
36	013-6002-50	SWITCH	15	81	285-1340-00	GUIDE LABEL (CAUTION)	1
37	013-3812-11	SWITCH	2	82	303-0457-20	UPPER-CVR	1
39	346-0097-00	LEATHER SHEET	1	83	731-3006-80	TAPTIGHT	13
40	291-0074-00	STICKER	1	84	286-8477-00	SETPLATE	1
41	370-5576-01	INNER-ESCUTCHEON	1	85	304-0440-20	LOWER-CVR	1
42	714-2004-19	MACHINE SCREW	2	86	750-2796-0L	SPRING	2
43	335-4841-00	HOOK	1	87	714-5008-41	MACHINE SCREW	2
44	341-1492-00	SHAFT	1	88	940-1753A	DCP ASS'Y (E-A,AMBER)	1
45	750-3174-00	SPRING	1		940-1754A	DCP ASS'Y (E-B,GREEN)	1
46	382-4078-00	BUTTON (P-OUT)	1				

# **■ PARTS LIST**

## **MAIN PWB**

Note) Several different parts of the same reference number are alternative parts.  
One of those parts is used in the set.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 1	182-4763-22	10V47uF	C 560	178-5622-05	5600pF	Q 209	125-2003-02	RN1202
C 2	182-1053-63	50V1uF	C 561	178-5622-05	5600pF	Q 501	125-0003-02	RN2202
C 3	178-1032-05	0.01uF	C 601	178-1032-05	0.01uF	Q 502	103-1504-00	2SD1504
C 4	178-2732-05	0.027uF	C 605	178-4732-05	0.047uF	Q 503	125-2003-02	RN1202
C 5	178-2732-05	0.027uF	C 609	178-4732-05	0.047uF	Q 504	103-1504-00	2SD1504
C 6	178-4732-05	0.047uF	C 610	178-1022-05	1000pF	Q 505	103-1504-00	2SD1504
C 7	178-1032-05	0.01uF	C 611	178-1032-05	0.01uF	Q 506	103-1504-00	2SD1504
C 9	176-1011-00	100pF CH	C 612	178-1022-05	1000pF	Q 601	102-2458-00	2SC2458
C 10	176-1011-00	100pF CH	C 613	178-1042-78	0.1uF	Q 602	100-1048-00	2SA1048
C 11	176-1011-00	100pF CH	C 614	178-1042-78	0.1uF	Q 603	125-0003-03	RN2203
C 12	176-1011-00	100pF CH	C 615	182-2263-33	16V22uF	Q 604	125-0003-03	RN2203
C 13	178-4722-05	4700pF	C 616	182-2263-33	16V22uF	Q 605	125-2003-03	RN1203
C 14	178-4732-05	0.047uF	C 801	178-3312-05	330pF	Q 801	125-0003-02	RN2202
C 15	182-4763-22	10V47uF	C 802	182-2253-62	50V2.2uF	Q 802	102-2458-51	2SC2458Y.GR.BL
C 16	178-1042-78	0.1uF	C 803	178-5612-05	560pF	Q 901	103-1858-00	2SD1858
C 17	178-1532-05	0.015uF	C 804	182-4763-13	6.3V47uF	Q 902	102-3420-00	2SC3420
C 18	178-6832-05	0.068uF	C 805	178-1042-78	0.1uF	Q 903	103-1858-00	2SD1858
C 19	182-2253-62	50V2.2uF	C 806	176-4701-00	47pF CH	Q 904	125-0003-02	RN2202
C 21	176-1501-00	15pF CH	C 807	176-8201-00	82pF CH	Q 905	125-0003-02	RN2202
C 22	176-1801-00	18pF CH	C 808	178-3312-05	330pF	Q 906	125-2003-02	RN1202
C 24	176-1801-00	18pF CH	C 809	178-1022-05	1000pF	R 1	117-1031-10	1/10W 10kohm
C 25	176-5096-00	5pF CH	C 901	182-1063-33	16V10uF	R 2	117-1031-10	1/10W 10kohm
C 26	178-4732-05	0.047uF	C 902	182-1063-33	16V10uF	R 3	111-1021-91	1/4WS 1kohm
C 27	176-1011-00	100pF CH	C 903	178-4732-05	0.047uF	R 4	111-1021-91	1/4WS 1kohm
C 28	178-1042-78	0.1uF	D 5	001-0330-00	1SS119	R 5	117-6821-10	1/10W 6.8kohm
C 29	176-1011-00	100pF CH	D 201	001-0466-00	S5688B	R 6	117-1231-10	1/10W 12kohm
C 101	182-2253-62	50V2.2uF	D 202	001-0330-00	1SS119	R 7	117-3931-10	1/10W 39kohm
C 102	182-2253-62	50V2.2uF	D 205	001-0330-00	1SS119	R 8	117-8231-10	1/10W 82kohm
C 103	182-2253-62	50V2.2uF	D 206	001-0503-48	HZS9C2L	R 9	117-1031-10	1/10W 10kohm
C 104	182-2253-62	50V2.2uF	D 207	001-0377-46	MA4091L	R 10	117-5631-10	1/10W 56kohm
C 105	178-2232-05	0.022uF	D 208	001-0377-32	MA4056M	R 11	117-1031-10	1/10W 10kohm
C 201	182-4763-33	16V47uF	D 209	001-0330-00	1SS119	R 12	111-1031-91	1/4WS 10kohm
C 202	184-3373-22	10V330uF	D 210	001-0188-01	1S1885A	R 13	117-1031-10	1/10W 10kohm
C 203	184-2283-32	16V2200uF	D 211	001-0330-00	1SS119	R 14	111-1021-91	1/4WS 1kohm
C 204	172-1041-11	0.1uF	D 212	001-0330-00	1SS119	R 15	117-1041-10	1/10W 100kohm
C 205	182-1063-33	16V10uF	D 213	001-0330-00	1SS119	R 16	117-4721-10	1/10W 4.7kohm
C 206	178-4732-05	0.047uF	D 501	001-0330-00	1SS119	R 17	117-1031-10	1/10W 10kohm
C 207	178-4732-05	0.047uF	D 502	001-0377-32	MA4056M	R 18	117-1031-10	1/10W 10kohm
C 208	178-1032-05	0.01uF	D 503	001-0330-00	1SS119	R 19	117-1021-10	1/10W 1kohm
C 209	178-4732-05	0.047uF	D 504	001-0377-23	MA4043M	R 20	117-2721-10	1/10W 2.7kohm
C 501	182-3343-63	50V0.33uF	D 601	001-0330-00	1SS119	R 21	111-2221-91	1/4WS 2.2kohm
C 520	182-4763-33	16V47uF	D 602	001-0330-00	1SS119	R 22	111-1021-91	1/4WS 1kohm
C 523	182-1063-33	16V10uF	D 603	001-0377-44	MA4082M	R 24	117-4741-10	1/10W 470kohm
C 524	182-4753-53	35V4.7uF	D 901	001-0377-45	MA4082H	R 25	117-1021-10	1/10W 1kohm
C 525	182-1063-33	16V10uF	D 902	001-0377-32	MA4056M	R 101	117-4721-10	1/10W 4.7kohm
C 526	182-1063-33	16V10uF	IC 1	051-6201-00	LC72146M	R 102	117-4721-10	1/10W 4.7kohm
C 527	182-1063-33	16V10uF	IC 101	051-2009-00	TDA8561Q	R 103	117-4721-10	1/10W 4.7kohm
C 528	182-1063-33	16V10uF	IC 102	051-2009-00	TDA8561Q	R 104	117-4721-10	1/10W 4.7kohm
C 529	182-1063-33	16V10uF	IC 502	051-5008-00	M62419FP	R 105	111-2231-91	1/4WS 22kohm
C 531	182-1063-33	16V10uF	IC 601	052-3325-00	uPD78058GC-116-3B9	R 201	111-1091-91	1/4WS 1ohm
C 532	182-1063-33	16V10uF	IC 602	051-0869-00	MB3771P(-G)	R 202	111-1091-91	1/4WS 1ohm
C 535	176-5601-00	56pF CH	IC 801	051-1819-00	SAA6579T	R 203	111-1091-91	1/4WS 1ohm
C 536	176-5601-00	56pF CH	L 1	010-2330-17	5.6uH	R 204	111-1091-91	1/4WS 1ohm
C 537	182-4753-53	35V4.7uF	L 2	010-2330-38	220uH	R 205	117-1031-10	1/10W 10kohm
C 538	182-4753-53	35V4.7uF	L 601	010-2330-50	0.22uH	R 206	111-1021-91	1/4WS 1kohm
C 539	176-1511-00	150pF CH	L 602	010-2330-50	0.22uH	R 207	111-1031-91	1/4WS 10kohm
C 540	176-1511-00	150pF CH	L 801	010-2230-38	220uH	R 208	111-4721-91	1/4WS 4.7kohm
C 541	182-2263-33	16V22uF	Q 1	100-1048-00	2SA1048	R 209	111-4711-91	1/4WS 470ohm
C 542	182-2263-33	16V22uF	Q 2	100-1048-00	2SA1048	R 210	117-1531-10	1/10W 15kohm
C 544	182-4763-13	6.3V47uF	Q 3	125-0003-02	RN2202	R 211	111-1021-91	1/4WS 1kohm
C 547	178-5622-05	5600pF	Q 4	103-1504-00	2SD1504	R 212	032-0108-00	1/4W 1.8ohm
C 548	178-5632-05	0.056uF	Q 5	102-2458-51	2SC2458Y.GR.BL	R 213	111-1031-91	1/4WS 10kohm
C 549	178-5632-05	0.056uF	Q 6	102-2458-51	2SC2458Y.GR.BL	R 214	111-1021-91	1/4WS 1kohm
C 550	178-5622-05	5600pF	Q 201	103-1858-00	2SD1858	R 215	117-4721-10	1/10W 4.7kohm
C 553	182-1063-33	16V10uF	Q 202	103-1858-00	2SD1858	R 216	111-2231-91	1/4WS 22kohm
C 554	182-1063-33	16V10uF	Q 203	101-1237-00	2SB1237	R 217	111-1831-91	1/4WS 18kohm
C 555	182-1073-13	6.3V100uF	Q 204	103-1858-00	2SD1858	R 505	111-3311-91	1/4WS 330ohm
C 555	182-4763-13	6.3V47uF	Q 205	103-1858-00	2SD1858	R 506	117-1031-10	1/10W 10kohm
C 556	178-8232-55	0.082uF	Q 206	103-1858-00	2SD1858	R 507	111-4721-91	1/4WS 4.7kohm
C 557	178-8232-55	0.082uF	Q 207	102-2458-00	2SC2458	R 508	111-1031-91	1/4WS 10kohm
C 558	178-2232-05	0.022uF	Q 208	101-1240-00	2SB1240	R 509	117-1031-10	1/10W 10kohm
C 559	178-2232-05	0.022uF				R 510	111-4721-91	1/4WS 4.7kohm

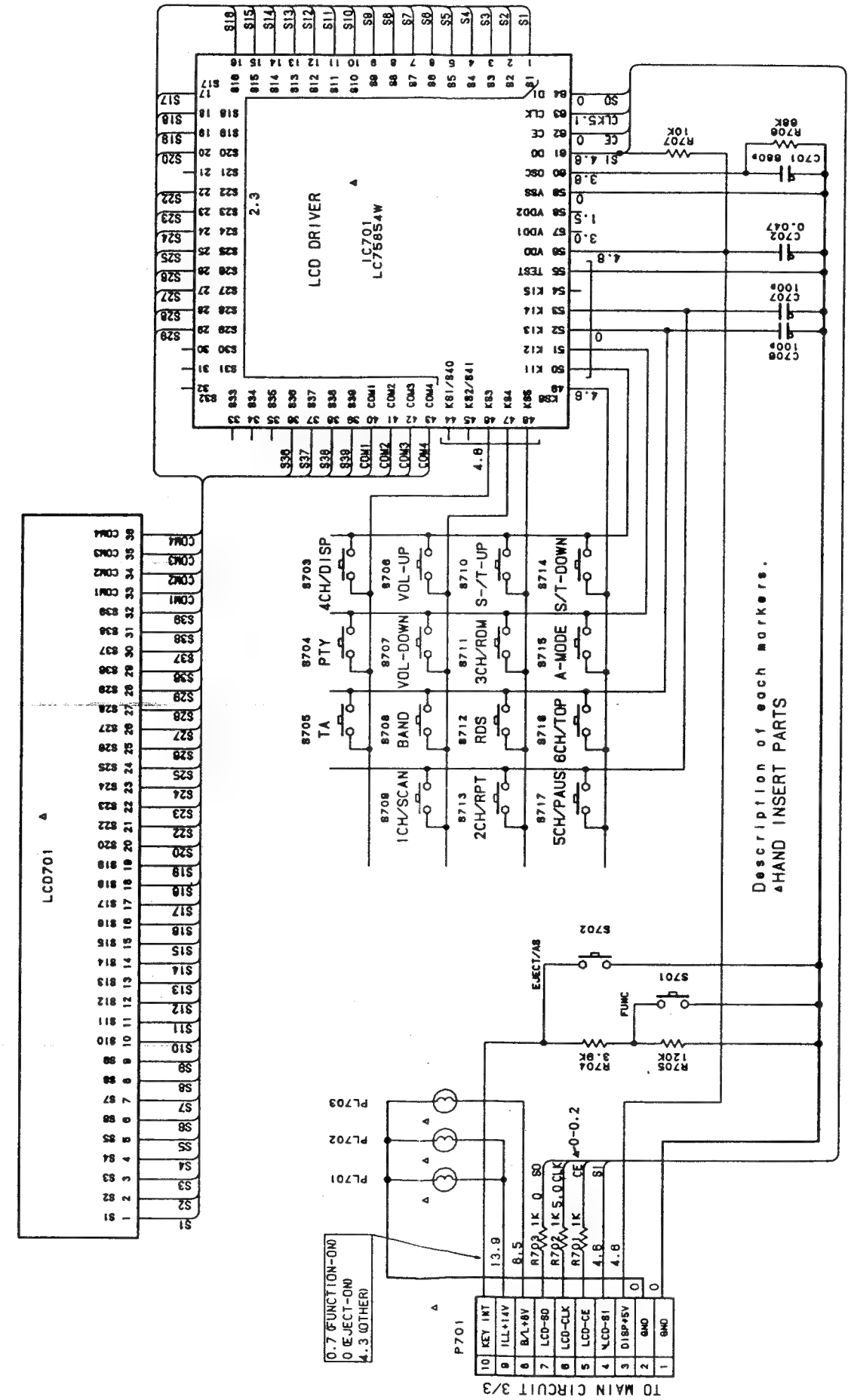
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## ■ CIRCUIT DIAGRAM 1/3

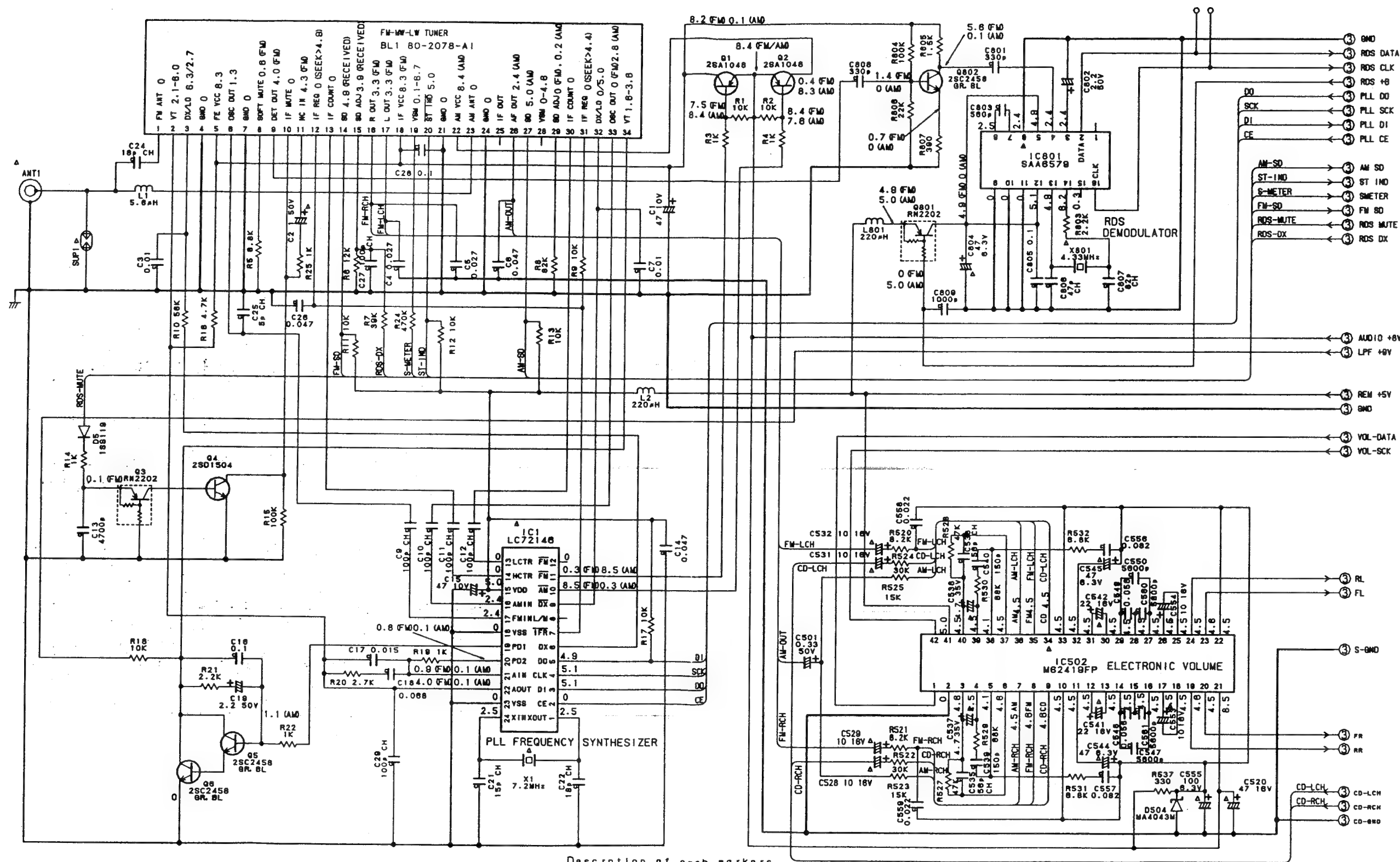
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R 511	111-3311-91	1/4WS 330ohm	R 532	117-6821-10	1/10W 6.8kohm	R 619	117-4731-10	1/10W 47kohm
R 512	111-3311-91	1/4WS 330ohm	R 537	111-3311-91	1/4WS 330ohm	R 620	117-6831-10	1/10W 68kohm
R 513	117-1031-10	1/10W 10kohm	R 601	117-1021-10	1/10W 1kohm	R 621	117-1241-10	1/10W 120kohm
R 514	111-4721-91	1/4WS 4.7kohm	R 602	117-2231-10	1/10W 22kohm	R 622	117-1041-10	1/10W 100kohm
R 515	117-1031-10	1/10W 10kohm	R 603	117-1021-10	1/10W 1kohm	R 623	117-1041-10	1/10W 100kohm
R 516	111-4721-91	1/4WS 4.7kohm	R 604	117-1041-10	1/10W 100kohm	R 803	117-2221-10	1/10W 2.2kohm
R 517	111-3311-91	1/4WS 330ohm	R 605	117-1041-10	1/10W 100kohm	R 804	111-1041-91	1/4WS 100kohm
R 518	117-1531-10	1/10W 15kohm	R 606	117-1041-10	1/10W 100kohm	R 805	111-1521-91	1/4WS 1.5kohm
R 520	117-8221-10	1/10W 8.2kohm	R 607	117-1031-10	1/10W 10kohm	R 806	117-2231-10	1/10W 22kohm
R 521	117-8221-10	1/10W 8.2kohm	R 608	117-1031-10	1/10W 10kohm	R 807	117-3911-10	1/10W 390ohm
R 522	117-3031-10	1/10W 30kohm	R 609	117-2231-10	1/10W 22kohm	R 901	111-1091-91	1/4WS 1ohm
R 523	117-1531-10	1/10W 15kohm	R 610	117-1021-10	1/10W 1kohm	R 902	111-1091-91	1/4WS 1ohm
R 524	117-3031-10	1/10W 30kohm	R 611	111-2231-91	1/4WS 22kohm	R 903	111-3311-91	1/4WS 330ohm
R 525	117-1531-10	1/10W 15kohm	R 612	117-4731-10	1/10W 47kohm	R 904	111-2211-91	1/4WS 220ohm
R 527	117-4731-10	1/10W 47kohm	R 613	117-4721-10	1/10W 4.7kohm	SUP1	060-0122-10	DSP-201M-S00B
R 528	117-4731-10	1/10W 47kohm	R 614	117-4721-10	1/10W 4.7kohm	T 201	009-9006-60	
R 529	117-6831-10	1/10W 68kohm	R 616	111-1021-91	1/4WS 1kohm	X 1	061-1066-00	7.2MHz
R 530	117-6831-10	1/10W 68kohm	R 617	111-1031-91	1/4WS 10kohm	X 601	060-0130-50	4.19MHz
R 531	117-6821-10	1/10W 6.8kohm	R 618	117-1041-10	1/10W 100kohm	X 801	061-3013-00	4.33MHz

## SWITCH PWB

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 701	178-6812-05	680pF	R 706	117-6831-10	1/10W 68kohm	S 709	013-3640-02	
C 702	178-4732-05	0.047uF	R 707	117-1031-10	1/10W 10kohm	S 710	013-3640-02	
C 706	176-1011-00	100pF CH	S 701	013-3640-02		S 711	013-3640-02	
C 707	176-1011-00	100pF CH	S 702	013-3812-11		S 712	013-3640-02	
IC 701	051-6013-00	LC75854W	S 703	013-3640-02		S 713	013-3640-02	
R 701	117-1021-10	1/10W 1kohm	S 704	013-3640-02		S 714	013-3640-02	
R 702	117-1021-10	1/10W 1kohm	S 705	013-3640-02		S 715	013-3640-02	
R 703	117-1021-10	1/10W 1kohm	S 706	013-3812-11		S 716	013-3640-02	
R 704	117-3921-10	1/10W 3.9kohm	S 707	013-3640-02		S 717	013-3640-02	
R 705	117-1241-10	1/10W 120kohm	S 708	013-3640-02				



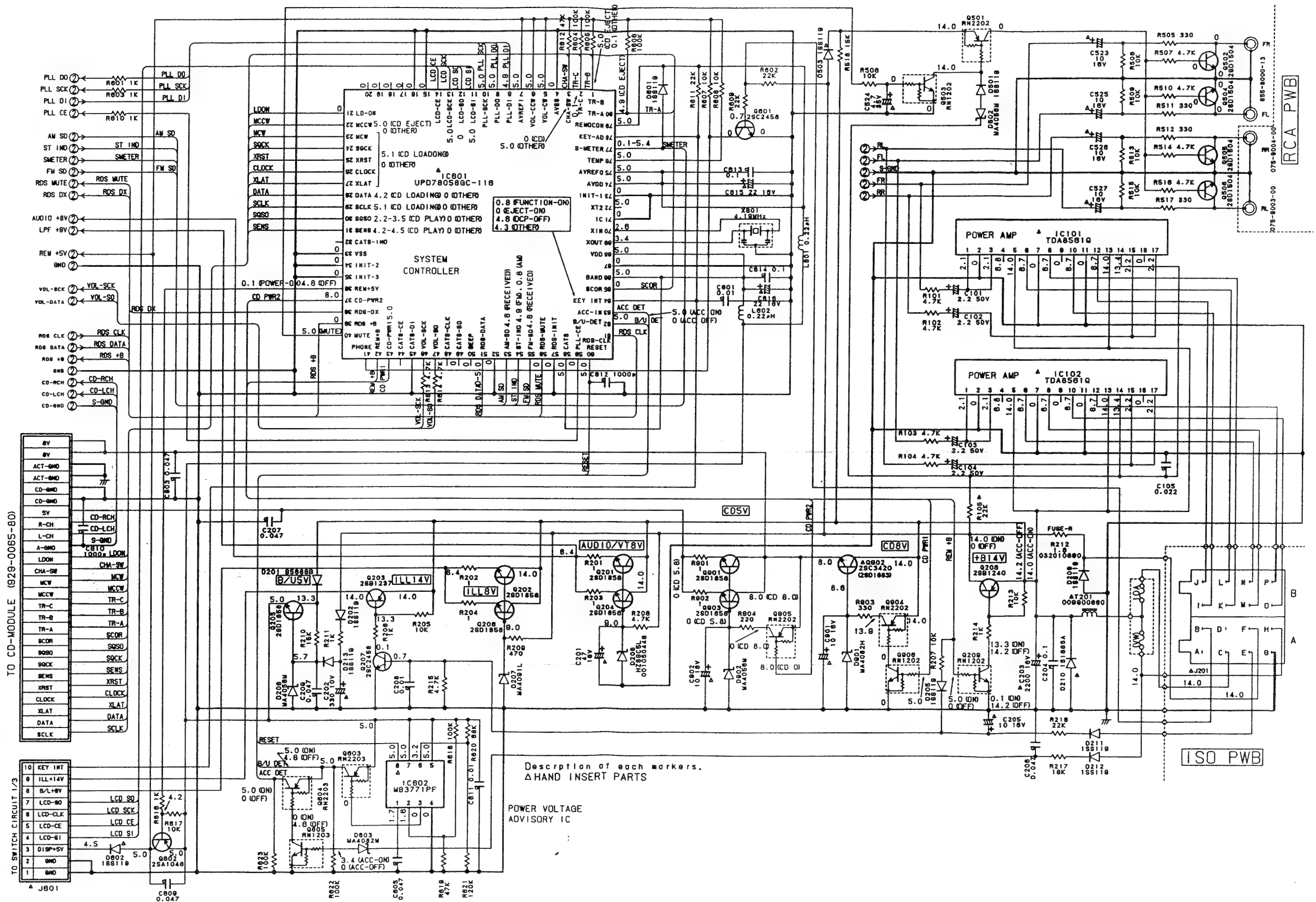
## ■ CIRCUIT DIAGRAM 2/3



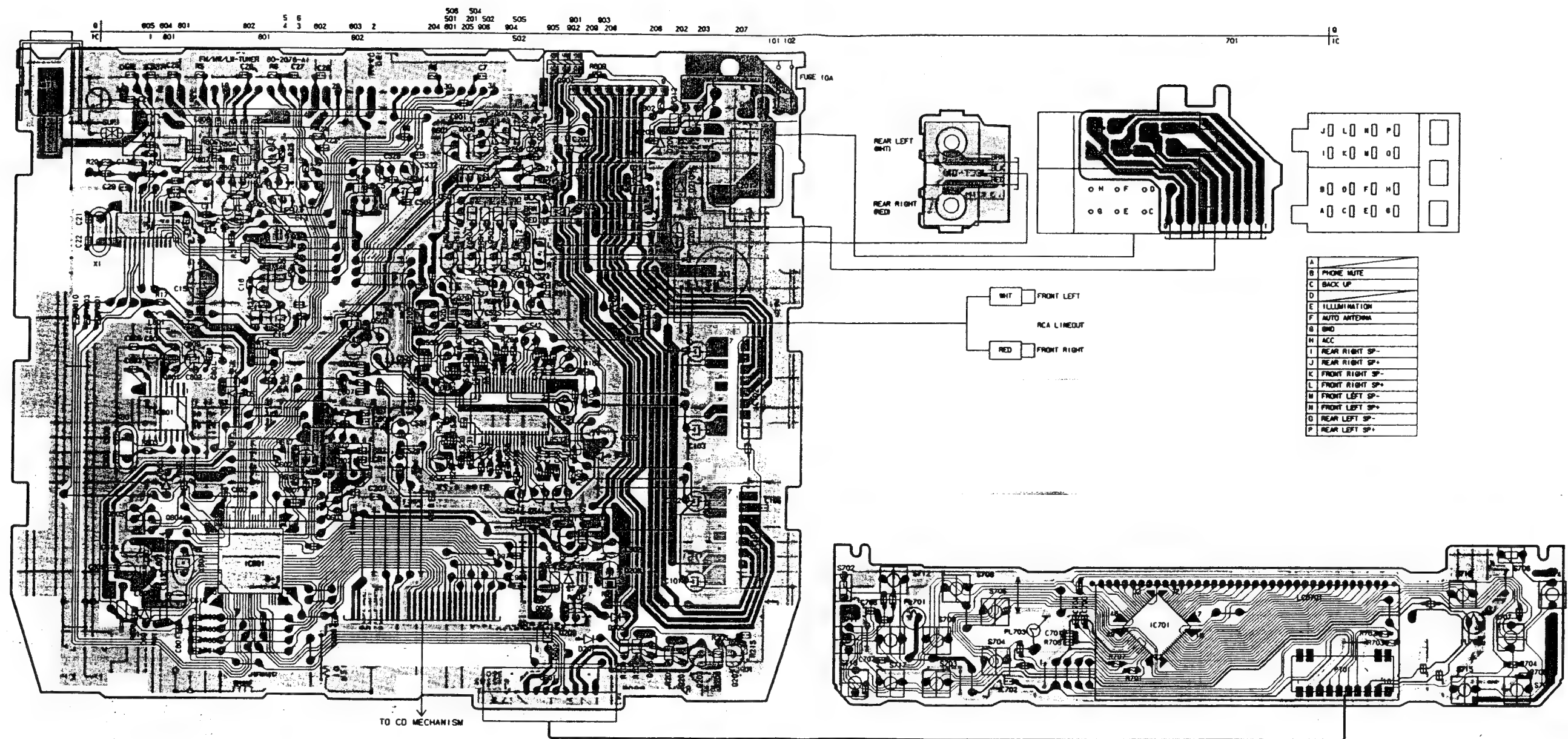
Description of each markers.  
ΔHAND INSERT PARTS



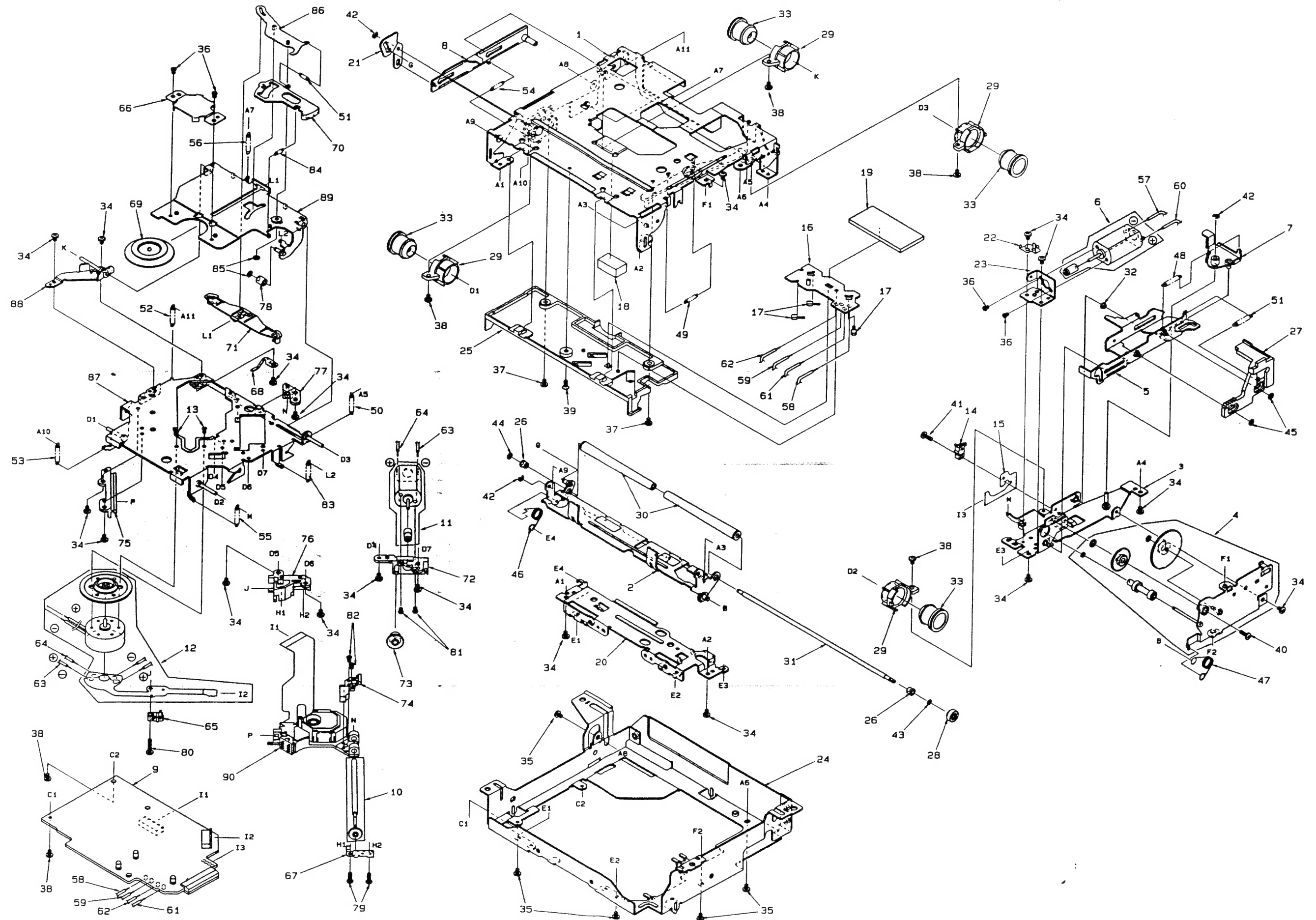
# CIRCUIT DIAGRAM 3/3



# PRINTED WIRING BOARD



**EXPLODED VIEW**  
CD mechanism section 929-0065-80(BB-CD)





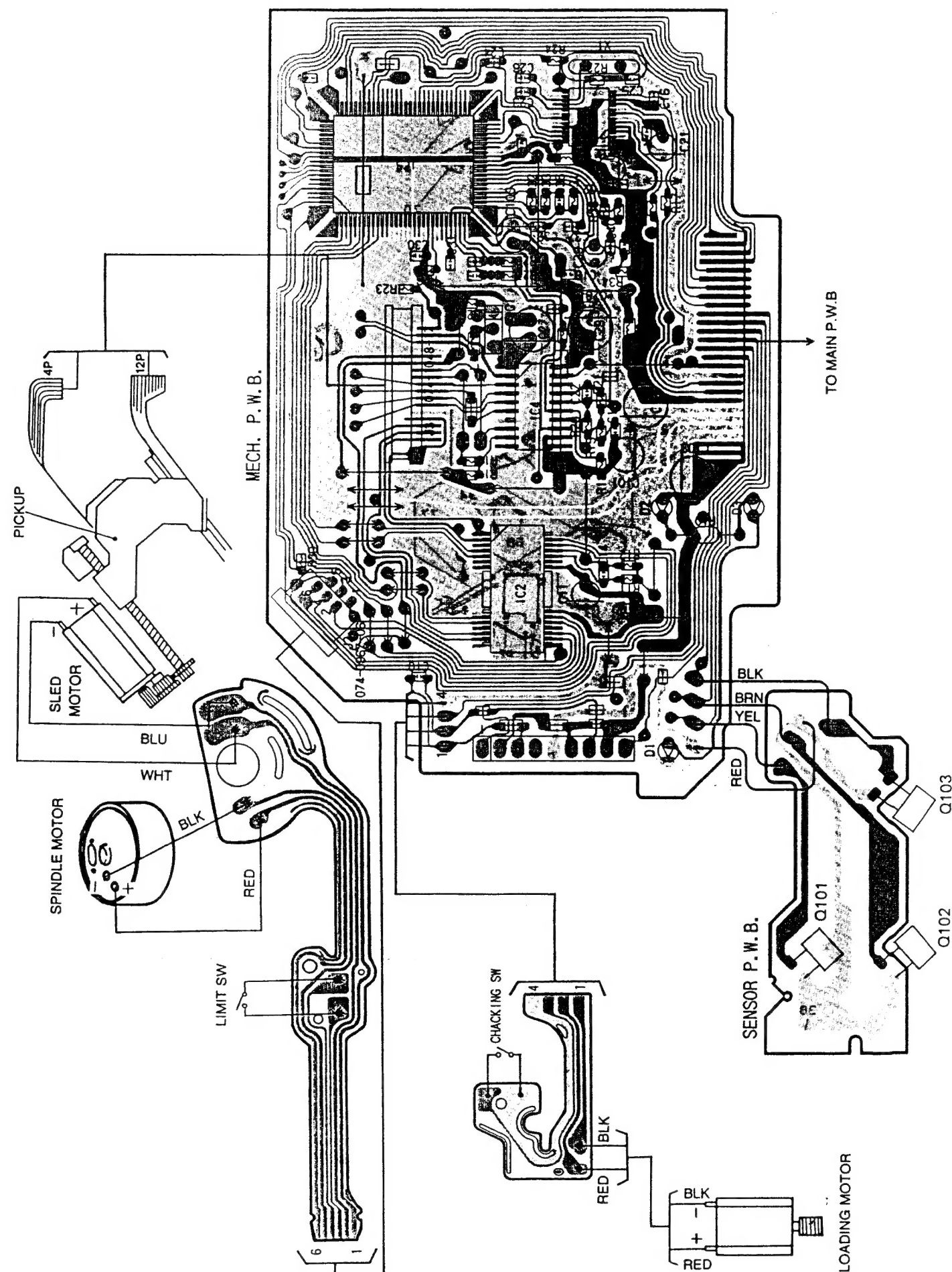
# PARTS LIST

CD mechanism section 929-0065-80(BB-CD)

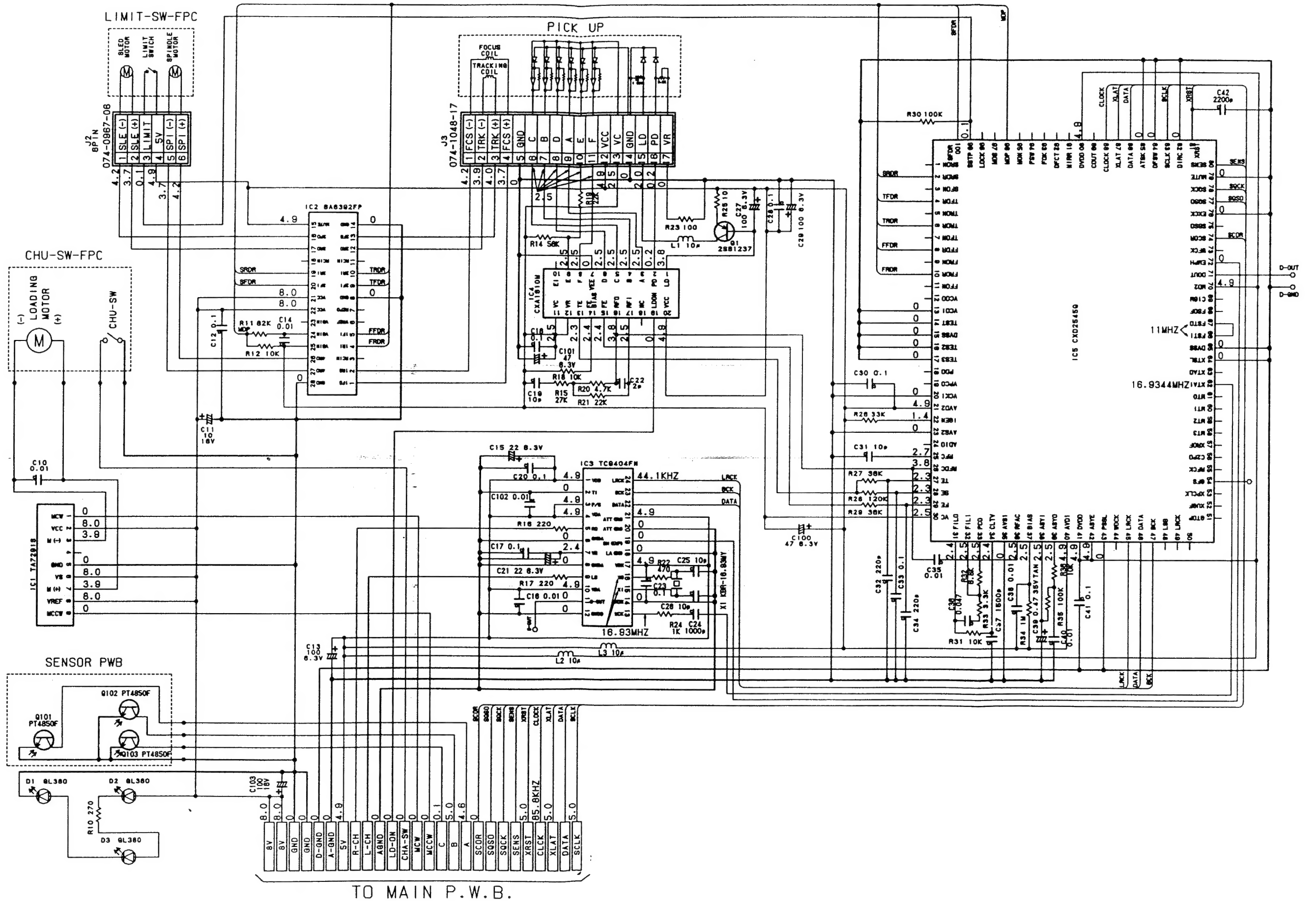
NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	966-0308-06	CHASSIS ASS'Y	1	46	750-3090-02	RO-SPRING-L	1
2	966-0309-04	L-DISC-G-ASS'Y	1	47	750-3091-03	RO-SPRING-R	1
3	966-0310-06	SFT-P-CH-ASS'Y	1	48	750-3092-03	SHIFT SPRING	1
4	HBS-430-100	GEAR-SUB-ASS'Y	1	49	750-3094-00	S-ARM SPRING	1
5	966-0312-06	SHIFT-P-ASS'Y	1	50	750-3096-01	DR-SPRING-R	1
6	SMA-147-100	MOTOR ASS'Y(LOADING)	1	51	750-3098-00	L-LINK SPRING	2
7	966-0358-01	DRIVE-L-PL-ASS'Y	1	52	750-3164-00	DR-SPRING-LR	1
8	966-0359-03	SIDE-L-PL-ASS'Y	1	53	750-3188-00	DR-SP-F-B	1
9	HBS-431-100	PWB ASS'Y	1	54	750-3189-00	SIDE-L-SPRING	1
10	HBS-432-100	LS-GEAR ASS'Y	1	55	750-3201-00	DR-SPRING-F-R	1
11	SMA-146-100	MOTOR ASS'Y(SLED)	1	56	750-3202-00	CENTER SPRING-B	1
12	SMA-151-100	MOTOR ASS'Y(SPINDLE)	1	57	800-4904-60	VINYL COAT WIRE(BLK)	1
13	716-1733-00	SCREW	2	58	800-4910-60	VINYL COAT WIRE(BLK)	1
14	013-3879-01	CHACKING SWITCH	1	59	801-4910-60	VINYL COAT WIRE(BRN)	1
15	039-0586-01	FLEXIBLE PWB	1	60	802-4904-60	VINYL COAT WIRE(RED)	1
16	039-0588-01	SENSOR PWB	1	61	802-4910-60	VINYL COAT WIRE(RED)	1
17	060-0252-01	PHOTO TR (PT4850F)	3	62	804-4910-60	VINYL COAT WIRE(YEL)	1
18	345-7513-01	CLAMPER SHEET	1	63	816-2372-00	VINYL COAT WIRE(BLU)	1
19	345-7514-00	S-PEB-SHEET	1	64	816-2373-00	VINYL COAT WIRE(WHT)	1
20	620-0485-03	FRONT PLATE	1	65	013-7100-00	LIMIT SWITCH	1
21	620-0488-01	S-L-LINK PLATE	1	66	620-0198-03	CLAMPER PLATE	1
22	620-0489-01	MOTOR PLATE	1	67	620-0491-02	SPRING PLATE	1
23	620-0492-01	MOTOR BRACKET	1	68	620-0690-00	RATTLE PLATE	1
24	620-0691-03	MECHA BRACKET	1	69	621-0205-02	CLAMPER PLATE	1
25	621-0242-02	U-DISC GUIDE	1	70	621-0251-02	LOCK LINK	1
26	621-0243-02	ROLLER SLEEVE	2	71	621-0252-03	DISC STOPPER	1
27	621-0248-06	RACK GEAR	1	72	621-0253-01	MOTOR HOLDER	1
28	621-0249-02	ROLLER GEAR	1	73	621-0255-02	SECOND GEAR	1
29	621-0250-01	DAMPER HOLDER	4	74	621-0257-05	SCREW HOLDER	1
30	621-0258-03	LOADING ROLLER	2	75	621-0357-01	PICKUP GUIDE	1
31	622-1072-04	ROLER SHAFT	1	76	621-0358-02	LS-HOLDER-F	1
32	622-1219-01	SHIFT ROLLER	1	77	621-0359-02	LS-HOLDER-R	1
33	629-0058-00	DAMPER-DL	4	78	622-1073-02	CLAMPER ROLLER	1
34	714-2003-81	MACHINE SCREW(M2X3)	18	79	716-0675-00	SCREW	2
35	714-2603-81	MACHINE SCREW(M2.6X3)	5	80	716-1555-00	WAVE SCREW	1
36	716-1468-00	SCREW	4	81	732-2004-11	SEMS SCREW	2
37	716-1507-00	SCREW	2	82	739-1735-17	PRECISION SCREW	2
38	716-1670-00	SCREW	6	83	750-3097-02	CLAMPER SPRING	1
39	716-1677-00	SCREW	1	84	750-3099-00	ES-SPRING	1
40	716-1704-00	SCREW	1	85	746-0761-00	WASHER	2
41	716-1742-00	SCREW	1	86	966-0314-01	STOP LINK ASS'Y	1
42	743-1500-10	E-RING	3	87	966-0447-02	DR-PLATE ASS'Y	1
43	746-0712-03	WASHER	1	88	966-0448-00	SIDE PLATE ASS'Y	1
44	746-0762-00	WASHER	1	89	966-0449-00	CLAMP LINK ASS'Y	1
45	746-0877-02	WASHER	2	90	969-0005-00	PICKUP UNIT ASS'Y	1

# PRINTED WIRING BOARD

CD mechanism section 929-0065-80(BB-CD)



# **CIRCUIT DIAGRAM** CD mechanism section 929-0065-80(BB-CD)



# ELECTRICAL PARTS LIST

CD mechanism section 929-0065-80(BB-CD)

## MECH PWB

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 10	178-1032-78	0.01uF	C 36	178-4732-78	0.047uF	R 14	117-5631-10	1/10W 56kohm
C 11	182-1063-32	16V10uF	C 37	178-1522-78	1500pF	R 15	117-2731-10	1/10W 27kohm
C 12	178-1042-78	0.1uF	C 38	178-1032-78	0.01uF	R 16	117-2211-10	1/10W 220ohm
C 13	182-1073-12	6.3V100uF	C 39	042-0230-00	35V0.47uF	R 17	117-2211-10	1/10W 220ohm
C 14	178-1032-78	0.01uF	C 40	178-1032-78	0.01uF	R 18	117-1031-10	1/10W 10kohm
C 15	182-2263-12	6.3V22uF	C 41	178-1042-78	0.1uF	R 19	117-2231-10	1/10W 22kohm
C 16	178-1032-78	0.01uF	C 42	178-2222-78	2200pF	R 20	117-4721-10	1/10W 4.7kohm
C 17	178-1042-78	0.1uF	C 100	182-4763-12	6.3V47uF	R 21	117-2231-10	1/10W 22kohm
C 18	178-1042-78	0.1uF	C 101	182-4763-12	6.3V47uF	R 22	117-4711-10	1/10W 470ohm
C 19	176-1007-00	10pF CH	C 102	178-1032-78	0.01uF	R 23	117-1011-10	1/10W 100ohm
C 20	178-1042-78	0.1uF	C 103	182-1073-32	16V100uF	R 24	117-1021-10	1/10W 1kohm
C 21	182-2263-12	6.3V22uF	D 1	001-0563-00	GL380	R 25	117-1001-10	1/10W 10ohm
C 22	176-2096-00	2pF CJ	D 2	001-0563-00	GL380	R 26	117-3331-10	1/10W 33kohm
C 23	178-1042-78	0.1uF	D 3	001-0563-00	GL380	R 27	117-3631-10	1/10W 36kohm
C 24	178-1022-78	1000pF	IC 1	051-1014-10	TA7291S	R 28	117-1241-10	1/10W 120kohm
C 25	176-1007-00	10pF CH	IC 2	051-6015-05	BA6392FP	R 29	117-3631-10	1/10W 36kohm
C 26	176-1007-00	10pF CH	IC 3	051-6314-05	TC9404FN	R 30	117-1041-10	1/10W 100kohm
C 27	182-1073-12	6.3V100uF	IC 4	051-1971-00	CXA16010M	R 31	117-1031-10	1/10W 10kohm
C 28	178-1042-78	0.1uF	IC 5	051-6313-00	CXD2545Q	R 32	117-6821-10	1/10W 6.8kohm
C 29	182-1073-12	6.3V100uF	L 1	010-2155-03	10uH	R 33	117-3321-10	1/10W 3.3kohm
C 30	178-1042-78	0.1uF	L 2	010-2155-03	10uH	R 34	117-1051-10	1/10W 1Mohm
C 31	176-1007-00	10pF CH	L 3	010-2155-03	10uH	R 35	117-1041-10	1/10W 100kohm
C 32	178-2212-78	220pF	Q 1	101-1237-00	2SB1237	R 36	117-1031-10	1/10W 10kohm
C 33	178-1042-78	0.1uF	R 10	111-2711-91	1/4WS 270ohm	X 1	060-1014-00	16.9344MHz
C 34	178-2212-78	220pF	R 11	117-8231-10	1/10W 82kohm			
C 35	178-1032-78	0.01uF	R 12	117-1031-10	1/10W 10kohm			

## SENSOR PWB

REF No.	PART No.	DESCRIPTION
Q 101	060-0252-01	PT4850F
Q 102	060-0252-01	PT4850F
Q 103	060-0252-01	PT4850F